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(54) ANTISTATIC FIBER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain antistatic fiber useful as clothing, etc., excellent in natural degradation and fiber performance, slightly polluting an environment, by combining a prescribed antistatic polymer with a specific fiber-forming polymer in a single fiber.

SOLUTION: This antistatic fiber is obtained by combining (A) an antistatic polymer 1 which is obtained by mixing (i) a polymer consisting essentially of an aliphatic polyester such as a polyglycolic acid with (ii) one or more compounds selected from the group consisting of a surfactant containing both a lipophilic

group and a hydrophilic group, a 2-4C alkyl group-containing polyalkylene ether and a derivative of the polyalkylene ether and has $\leq 1 \times 10^{11} \Omega \cdot \text{cm}$ volume resistivity with (B) a fiber-forming polymer 2 consisting essentially of an aliphatic polyester in a single fiber. The combining ratio (volume ratio) of the antistatic polymer 1 and the fiber-forming polymer 2 is preferably 10/90 to 60/40.

